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ORAL-1190
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22 September 1960

MEMORANDUM FOR : Chief, Operations Branch, JED-XX/7

SUBJECT : Single Side Band Radio for U2 Aircraft

1. The possibility of installing single side band radio equipment in the U-2 aircraft has been investigated thoroughly and it has been determined that the installation is feasible without removing any of the systems presently installed.
2. The installation requires considerable rearrangement of the equipment presently installed in the nose of the aircraft. The ABB-6 radio compass must be removed from the nose. Its function will be performed by the addition of an ABB-99 Automatic Direction Finder (Aircraft Radio Corporation's Model 21A) to be located in the left cheek area of the aircraft. The loop antenna will remain in its present location in the nose. The indicator and control box will remain "as is." System 3, presently located in the nose, will be relocated to the left cheek area and will operate in conjunction with the System 6 "P" band from the ventral antenna. The above relocation of equipment will provide space to locate the single side band transceiver in the nose of the aircraft. It will be placed in a pressure compartment to be built in the nose since the transceiver will not withstand the low pressure encountered at 70,000 feet. The antenna for the installation will consist of a wire suspended between a point on the fuselage just aft of the "Q" bay and the tip of the vertical stabilizer.
3. As a result of the addition of a single side band capability to the U-2 aircraft, there will be an attendant increase in weight of 41 pounds.

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Development Division
JED-XX/7

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